

Analytical Laboratory

13339 Hagers Ferry Road Huntersville, NC 28078-7929 McGuire Nuclear Complex - MG03A2 Phone: 980-875-5245 Fax: 980-875-4349

Order Summary Report

Order Number: J16040377

Project Name: Edwardsport - Greywater: RO TDS

Derek Henderson, Mark Peacock, Nathan Cheney Customer Name(s):

Customer Address: 1097 N 950 W

Owensville, IN 47665

Lab Contact: Peggy Kendall Phone:

Report Authorized By:

(Signature)

Date:

4/18/2016

Program Comments:

Please contact the Program Manager (Peggy Kendall) with any questions regarding this report.

Data Flags & Calculations:

Any analytical tests or individual analytes within a test flagged with a Qualifier indicate a deviation from the method quality system or quality control requirement. The qualifier description is found at the end of the Certificate of Analysis (sample results) under the qualifiers heading. All results are reported on a dry weight basis unless otherwise noted. Subcontracted data included on the Duke Certificate of Analysis is to be used as information only. Certified vendor results can be found in the subcontracted lab final report. Duke Energy Analytical Laboratory subcontracts analyses to other vendor laboratories that have been qualified by Duke Energy to perform these analyses except where noted.

F Kindall

Data Package:

This data package includes analytical results that are applicable only to the samples described in this narrative. An estimation of the uncertainty of measurement for the results in the report is available upon request. This report shall not be reproduced, except in full, without the written consent of the Analytical Laboratory. Please contact the Analytical laboratory with any questions. The order of individual sections within this report is as follows:

Job Summary Report, Sample Identification, Technical Validation of Data Package, Analytical Laboratory Certificate of Analysis, Analytical Laboratory QC Reports, Sub-contracted Laboratory Results, Customer Specific Data Sheets, Reports & Documentation, Customer Database Entries, Test Case Narratives, Chain of Custody (COC)

Certification:

The Analytical Laboratory holds the following State Certifications: North Carolina (DENR) Certificate #248, South Carolina (DHEC) Laboratory ID # 99005. Contact the Analytical Laboratory for definitive information about the certification status of specific methods.

Sample ID's & Descriptions:

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Sample ID	Plant/Station	Collection Date and Time	Collected By	Sample Description
2016010620	EDWARDSPORT	14-Apr-16 9:30 AM	JRM	LP Greywater Feed
2016010621	EDWARDSPORT	14-Apr-16 9:32 AM	JRM	Grey Water Feed Tank
2016010622	EDWARDSPORT	14-Apr-16 9:37 AM	JRM	Condensate Trim Cooler Discharge
2016010623	EDWARDSPORT	14-Apr-16 9:45 AM	JRM	RO Feed Pumps
2016010624	EDWARDSPORT	14-Apr-16 9:42 AM	JRM	First Pass RO Booster Pump 154
2016010625	EDWARDSPORT	14-Apr-16 9:40 AM	JRM	Second Pass RO Booster Pump 255
2016010626	EDWARDSPORT	14-Apr-16 9:42 AM	JRM	RO Permeate Pumps
		•	-	

Technical Validation Review

Checklist:

COC and .pdf report are in agreement with sample totals and analyses (compliance programs and procedures).

All Results are less than the laboratory reporting limits.

☐ Yes ☐ No

All laboratory QA/QC requirements are acceptable.

☑ Yes ☐ No

Report Sections Included:

✓ Job Summary Report	✓ Sub-contracted Laboratory Results
Sample Identification	☐ Customer Specific Data Sheets, Reports, & Documentation
▼ Technical Validation of Data Package	☐ Customer Database Entries
✓ Analytical Laboratory Certificate of Analysis	✓ Chain of Custody
Analytical Laboratory QC Report	✓ Electronic Data Deliverable (EDD) Sent Separately

Reviewed By: Peggy Kendall Date: 4/18/2016

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Certificate of Laboratory Analysis

This report shall not be reproduced, except in full.

Order # J16040377

Site: LP Greywater Feed Sample #: 2016010620

Collection Date: 14-Apr-16 9:30 AM Matrix: OTHER

Analyte Result Units Qualifiers RDL DF Method Analysis Date/Time Analyst

TOTAL DISSOLVED SOLIDS - (Analysis Performed by Pace Laboratories)

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Certificate of Laboratory Analysis

This report shall not be reproduced, except in full.

Order # J16040377

Site: Grey Water Feed Tank Sample #: 2016010621

Collection Date: 14-Apr-16 9:32 AM Matrix: OTHER

Analyte Result Units Qualifiers RDL DF Method Analysis Date/Time Analyst

TOTAL DISSOLVED SOLIDS - (Analysis Performed by Pace Laboratories)

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Certificate of Laboratory Analysis

This report shall not be reproduced, except in full.

Order # J16040377

Site: Condensate Trim Cooler Discharge

Collection Date: 14-Apr-16 9:37 AM

Sample #: 2016010622

Matrix: OTHER

Analyte Result Units Qualifiers RDL DF Method Analysis Date/Time Analyst

TOTAL DISSOLVED SOLIDS - (Analysis Performed by Pace Laboratories)

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Certificate of Laboratory Analysis

This report shall not be reproduced, except in full.

Order # J16040377

Site: RO Feed Pumps Sample #: 2016010623

Collection Date: 14-Apr-16 9:45 AM Matrix: OTHER

Analyte Result Units Qualifiers RDL DF Method Analysis Date/Time Analyst

TOTAL DISSOLVED SOLIDS - (Analysis Performed by Pace Laboratories)

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Certificate of Laboratory Analysis

This report shall not be reproduced, except in full.

Order # J16040377

Site: First Pass RO Booster Pump 154

Sample #:

2016010624

Collection Date: 14-Apr-16 9:42 AM

Matrix:

OTHER

Analyte Result Units Qualifiers RDL DF Method Analysis Date/Time Analyst

TOTAL DISSOLVED SOLIDS - (Analysis Performed by Pace Laboratories)

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2016010625

Certificate of Laboratory Analysis

This report shall not be reproduced, except in full.

Order # J16040377

Site: Second Pass RO Booster Pump 255 Sample #:

Collection Date: 14-Apr-16 9:40 AM Matrix: OTHER

Analyte Result Units Qualifiers RDL DF Method Analysis Date/Time Analyst

TOTAL DISSOLVED SOLIDS - (Analysis Performed by Pace Laboratories)

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Certificate of Laboratory Analysis

This report shall not be reproduced, except in full.

Order # J16040377

Site: RO Permeate Pumps Sample #: 2016010626

Collection Date: 14-Apr-16 9:42 AM Matrix: OTHER

Analyte Result Units Qualifiers RDL DF Method Analysis Date/Time Analyst

TOTAL DISSOLVED SOLIDS - (Analysis Performed by Pace Laboratories)



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Indianapolis, IN 46268
(317)228-3100

April 18, 2016

Mr. Mark Peacock Duke Energy Edwardsport IGCC 15424 E. STATE ROAD 358 Edwardsport, IN 47528

RE: Project: J16040377-Greywater: RO TDS

Pace Project No.: 50142895

Dear Mr. Peacock:

Enclosed are the analytical results for sample(s) received by the laboratory on April 14, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kenneth Hunt

kenneth.hunt@pacelabs.com

Project Manager

Enclosures

cc: Mr. Derek Henderson, Duke Energy Ms. Peggy Kendall, Duke Energy Central Laboratory Program Manager, Duke Energy Mr. Rhett Moody, Duke Energy (Edwardsport Generating Station)





(614)486-5421

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CERTIFICATIONS

Project: J16040377-Greywater: RO TDS

Pace Project No.: 50142895

Indiana Certification IDs

7726 Moller Road, Indianapolis, IN 46268 Illinois Certification #: 200074 Indiana Certification #: C-49-06 Kansas/NELAP Certification #:E-10177 Kentucky UST Certification #: 0042 Kentucky WW Certification #:98019

Ohio VAP Certification #: CL-0065 Oklahoma Certification #: 2014-148 Texas Certification #: T104704355-15-9 West Virginia Certification #: 330 Wisconsin Certification #: 999788130 USDA Soil Permit #: P330-10-00128

REPORT OF LABORATORY ANALYSIS



Pace Analytical Services, Inc.

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SAMPLE SUMMARY

Project: J16040377-Greywater: RO TDS

Pace Project No.: 50142895

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50142895001	LP Greywater Feed	Water	04/14/16 09:30	04/14/16 15:04
50142895002	Grey Water Feed Tank	Water	04/14/16 09:32	04/14/16 15:04
50142895003	Condensate Trim Cooler Disch	Water	04/14/16 09:37	04/14/16 15:04
50142895004	RO Feed Pumps	Water	04/14/16 09:45	04/14/16 15:04
50142895005	First Pass RO Booster Pump 154	Water	04/14/16 09:42	04/14/16 15:04
50142895006	2nd Pass RO Booster Pump 255	Water	04/14/16 09:40	04/14/16 15:04
50142895007	RO Permeate Pumps	Water	04/14/16 09:42	04/14/16 15:04



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SAMPLE ANALYTE COUNT

Project: J16040377-Greywater: RO TDS

Pace Project No.: 50142895

Lab ID	Sample ID	Method	Analysts	Analytes Reported
50142895001	LP Greywater Feed	SM 2540C	MDG	1
50142895002	Grey Water Feed Tank	SM 2540C	MDG	1
50142895003	Condensate Trim Cooler Disch	SM 2540C	MDG	1
50142895004	RO Feed Pumps	SM 2540C	MDG	1
50142895005	First Pass RO Booster Pump 154	SM 2540C	MDG	1
50142895006	2nd Pass RO Booster Pump 255	SM 2540C	MDG	1
50142895007	RO Permeate Pumps	SM 2540C	MDG	1



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ANALYTICAL RESULTS

Project: J16040377-Greywater: RO TDS

Pace Project No.: 50142895

Date: 04/18/2016 07:16 AM

Sample: LP Greywater Feed Lab ID: 50142895001 Collected: 04/14/16 09:30 Received: 04/14/16 15:04 Matrix: Water DF CAS No. **Parameters** Results Units Report Limit Prepared Analyzed Qual 2540C Total Dissolved Solids Analytical Method: SM 2540C **Total Dissolved Solids** 790 20.0 mg/L 1 04/15/16 11:35



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ANALYTICAL RESULTS

Project: J16040377-Greywater: RO TDS

Pace Project No.: 50142895

Date: 04/18/2016 07:16 AM

Sample: Grey Water Feed Tank Lab ID: 50142895002 Collected: 04/14/16 09:32 Received: 04/14/16 15:04 Matrix: Water DF CAS No. **Parameters** Results Units Report Limit Prepared Analyzed Qual 2540C Total Dissolved Solids Analytical Method: SM 2540C **Total Dissolved Solids** 586 20.0 mg/L 1 04/15/16 11:36



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ANALYTICAL RESULTS

Project: J16040377-Greywater: RO TDS

Pace Project No.: 50142895

Sample: Condensate Trim Cooler Lab ID: 50142895003 Collected: 04/14/16 09:37 Received: 04/14/16 15:04 Matrix: Water

Disch

Date: 04/18/2016 07:16 AM

Parameters Results Units Report Limit DF Prepared Analyzed CAS No. Qual

2540C Total Dissolved Solids Analytical Method: SM 2540C

Total Dissolved Solids 1760 mg/L 20.0 1 04/15/16 11:37



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ANALYTICAL RESULTS

Project: J16040377-Greywater: RO TDS

Pace Project No.: 50142895

Date: 04/18/2016 07:16 AM

Sample: RO Feed Pumps Lab ID: 50142895004 Collected: 04/14/16 09:45 Received: 04/14/16 15:04 Matrix: Water DF CAS No. Parameters Results Units Report Limit Prepared Analyzed Qual 2540C Total Dissolved Solids Analytical Method: SM 2540C **Total Dissolved Solids** 1620 20.0 mg/L 1 04/15/16 11:37



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ANALYTICAL RESULTS

Project: J16040377-Greywater: RO TDS

Pace Project No.: 50142895

Sample: First Pass RO Booster Lab ID: 50142895005 Collected: 04/14/16 09:42 Received: 04/14/16 15:04 Matrix: Water

Pump 154

Date: 04/18/2016 07:16 AM

Parameters Results Units Report Limit DF Prepared Analyzed CAS No. Qual

2540C Total Dissolved Solids Analytical Method: SM 2540C

Total Dissolved Solids **1590** mg/L 20.0 1 04/15/16 11:38



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ANALYTICAL RESULTS

Project: J16040377-Greywater: RO TDS

Pace Project No.: 50142895

Sample: 2nd Pass RO Booster Lab ID: 50142895006 Collected: 04/14/16 09:40 Received: 04/14/16 15:04 Matrix: Water

Pump 255

Date: 04/18/2016 07:16 AM

Parameters Results Units Report Limit DF Prepared Analyzed CAS No. Qual

2540C Total Dissolved Solids Analytical Method: SM 2540C

Total Dissolved Solids ND mg/L 10.0 1 04/15/16 11:38



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ANALYTICAL RESULTS

Project: J16040377-Greywater: RO TDS

Pace Project No.: 50142895

Date: 04/18/2016 07:16 AM

Sample: RO Permeate Pumps Lab ID: 50142895007 Collected: 04/14/16 09:42 Received: 04/14/16 15:04 Matrix: Water DF CAS No. **Parameters** Results Units Report Limit Prepared Analyzed Qual 2540C Total Dissolved Solids Analytical Method: SM 2540C **Total Dissolved Solids** 19 mg/L 10.0 1 04/15/16 11:38



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QUALITY CONTROL DATA

J16040377-Greywater: RO TDS Project:

Pace Project No.: 50142895

QC Batch: WET/28480 Analysis Method: SM 2540C

mg/L

QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids

Associated Lab Samples: 50142895001, 50142895002, 50142895003, 50142895004, 50142895005, 50142895006, 50142895007

METHOD BLANK: 1519173 Matrix: Water

Associated Lab Samples: 50142895001, 50142895002, 50142895003, 50142895004, 50142895005, 50142895006, 50142895007

> Blank Reporting

Parameter Limit Units Result Analyzed Qualifiers **Total Dissolved Solids** ND 10.0 04/15/16 11:34

LABORATORY CONTROL SAMPLE: 1519174

Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers **Total Dissolved Solids** mg/L 300 269 90 80-120

SAMPLE DUPLICATE: 1519175

Date: 04/18/2016 07:16 AM

50142895001 Dup Max **RPD RPD** Parameter Units Result Result Qualifiers 790 10 **Total Dissolved Solids** 770 3 mg/L

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



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QUALIFIERS

Project: J16040377-Greywater: RO TDS

Pace Project No.: 50142895

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

Date: 04/18/2016 07:16 AM



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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: J16040377-Greywater: RO TDS

Pace Project No.: 50142895

Date: 04/18/2016 07:16 AM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50142895001	LP Greywater Feed	SM 2540C	WET/28480		
50142895002	Grey Water Feed Tank	SM 2540C	WET/28480		
50142895003	Condensate Trim Cooler Disch	SM 2540C	WET/28480		
50142895004	RO Feed Pumps	SM 2540C	WET/28480		
50142895005	First Pass RO Booster Pump 154	SM 2540C	WET/28480		
50142895006	2nd Pass RO Booster Pump 255	SM 2540C	WET/28480		
50142895007	RO Permeate Pumps	SM 2540C	WET/28480		

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Customer must Complete

	Sami	ole Ca	melite	ion l	lbow.	Receipt				Page 26 of 27
Face Analytical CI	ient Name:	l	ul	CE	E	wy	Proj	eci #	570	142895
Courier: Fed Ex UPS Tracking #:	USPS Client		mmer	cial	Þace	e Other	OTTO BELLEVIS OF STREET	18988° - 4500000	ara. erroched a d'Affahreid 100-310-4000. Prince de constante de la constante	
Custody Seal on Cooler/Box Pres	sent: Yes	no no		Seals	intact:	yes	no no		Date	e/Time 5035A kits ed in freezer
Packing Material: Bubble Wra	ip Bubble B	ags	∐Nor	ne	Other	r <u>Z</u>	plac	***		
Thermometer 12366 AB	CDEF	Type	of ice:	(Wet) Blue	None	☐ Sam	ples on ic	e, cooling pr	ocess has begun
Cooler Temperature 01/	0,	ice i	'isible	in Sar	nple Co	ontainers:	yes	س	ņο	
(Initial/Corrected)					C					erson examining
Temp should be above freezing to 6°C Are samples from West Virginia?)				Comm	ents:		content	s: 19-2	11446
Document any containers out of ter		∐Yes	≅No		1.					
Chain of Custody Present:		Yes	□No	□n/a	2.	-				
Chain of Custody Filled Out:	The state of the s	□ Yes	□No	□n/a	3.	•				
Chain of Custody Relinquished:		Ľ Yes .	□No	□n/a	4.		•			
Sampler Name & Signature on CO	D: .	Nes	□No	□n/a	5.					
Short Hold Time Analysis (<72hr)		□Yes	DN6	□N/A	6.					,
Rush Turn Around Time Request	ed:	□Yes	□No	□N/A	7.				·····	
Containers Intact:		□ Yes	□No	□N/A	8.					
Sample Labels match COC:		□ Yes	□No	□N⁄A	9.				•	
-Includes date/time/ID/Analysis				·						
All containers needing acid/base pres. have	ve been checked?	□Yes	□No	© N/A	10	(Circle) HNO3	H28	SO4	NaOH	NaOH/ZnAc
exceptions: VOA, coliform, TOC, O&G										
All containers needing preservation are recommendation (<2, >9, >12) unless o	found to be in comp therwise noted.	oliance v	vith EP/	4						
Residual Chlorine Check (SVOC 62	25 Pesi/PCB 608)				11.	Present		Absent		
Residual Chlorine Check (Total/Am	enable/Free Cyan	ide)			12.	Present	<i>F</i>	Absent		
Headspace in VOA Vials (>6mm):		□Yes	□No	₽₩A	13	· · · · · · · · · · · · · · · · · · ·				
Headspace Wisconsin Sulfide		□Yes	□No		14					
Trip Blank Present:		□Yes	₽No	□N/A	15					
Trip Blank Custody Seals Present	*	□Yes	13 46	□n/a		Total and a soften a XII for	TO NEW YORK			
Project Manager Review										
Samples Arrived within Hold Time:		Ves	□№	□N/A	15.					
Sufficient Volume:		Yes	□No	□n⁄a	16.	****		·····		
Correct Containers Used:		Yes	□No	□n/a	17.		 			
Client Notification/ Resolution:							Fiel	d Data Re	equired?	Y / N
Person Contacted:				_Date/	Time:					
Comments/ Resolution:	4.1								**************************************	hanne property and the second
	, 1									
	1/	7		/						
	1/		77				· · · · · · · · · · · · · · · · · · ·			1
Project Manager Review:	& SAMMATA	70	Xh	AX	7			Date	. 3	114/11

Count
Container (
Sample

COC PAGE

CLIENT:

DG9H AG1U WGFU AG0U R 4/6 BP2N BP2U	COC PAGE			
DG9H AG1U WGFU AGOU R 4/6 BP2N BP2U BP2S BP3N BP3S AG3S AG1H BP3C BP1U SP5T AG2U		Project #	18 13	
DG9H AG1U WGFU AG0U R 4 / 6 BP2N BP3U BP3S AG3S AG1H BP3C BP1U SP5T AG2U	ple Lin			
	tem	DG9H AG1U WGFU AG0U R 4/6 BP2N BP2U BP2S BP3N		
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	Comainer Codes						
H690	DG9H 40mL HCL amber voa vial	AGOU	AG0U 100mL unpreserved amber glass	BP1N	BP1N 1 liter HNO3 plastic	ngapu	DG9D 40ml TSD ambar vial
AG1U	1 1liter unpreserved amber glass	AG1H	AG1H 1 liter HCL amber glass	BP1S	BP1S 1 Wer H2SO4 plassic	2000	Doos Jomi Hosold ambox not
WGFU	WGFU 4oz clear soil jar	AG18	AG1S 1 liter H2SO4 amber glass	80711	RD411 4 liter inpresented pleatic	2000	April No This ambas in
8	R terra core kit	AG1T	AG1T 1 liter Na Thiosulfate amber class	BP17	RD17 1 Hear NoOH 7% Ac	1000	Dool 40ml managed visit
BP2N	BP2N 500ml, HNO3 plastic	AG2N	AG2N 500mL HNO3 amber glass	BP2A	BP2A 500ml NaOH Asc Acid plastic	SDET	Specification No This Section
BP2U	500mL unpreserved plastic	AG2S	AG2S 500mL H2SO4 amber class	RP20	BP20 500ml NaOH plastic	10.01	ICELI 402 (margeonio) ambor mido
BP2S	500ml, H2SO4 plastic	AG2U	AG2U 500ml unpreserved amber plass	BD27	BD27 G00ml NaOH Zn Ac		Summer of the su
BP3N	BP3N 250mL HNO3 plastic	AG3U	AG3UI 250ml unpreserved amber glass	J V	AE Air Ellear	7,007	April 101 old 101
BP3U	250ml, unpreserved plastic	RG1H	RG4H 1 Rent Class Alass	2000		1000	VOOL TOT COM VIEW
BP3S	BP3S 250mL H2SO4 plastic	BG1S	BG1S 1 lifer H2SO4 clear class	BD37	BP37 250ml NaOH Zn Ac alastic	1857	VGST 40mL Na I nio. crear vial
AG3S	250mL H2SO4 glass amber	BG1T	BG1T 1 liter Na Thiosulfate clear glass	3 0	C. Air Cassettes	VSG	VSG Headenace sents vial & HO
AG1S	AG1S 1 liter H2SO4 amber glass	BG1U	BG1U 1 liter unpreserved glass	DG9B	DG9B 40ml Na Risulfate amber vial	W.FX	WGFX 407 wide iar whoxane wine
BP1U	1 liter unpreserved plastic	BP1A	BP1A 1 liter NaOH, Asc Acid plastic	DG9M	DG9M 40mL MeOH clear vial	ZPIC	ZPI G Ziploc Bag
						i	Special Control